BWC Algorithms

- **Lossy JPEG**
  - **8-bit monochrome**
  - **12-bit monochrome, pre/post**
  - **24-bit color**
- **Lossless JPEG**
- **Hierarchical JPEG**
- **VQ Decompression**

Lossy JPEG

- **8-bit monochrome**
  - **MIL-STD-188-198**
  - **issue: Tables will not be added (other data types)**
- **24-bit color**
  - **MIL-STD-188-198**
  - **no tables in STD, promised**
  - **CR to remove tables**
- **12-bit monochrome**
  - **MIL-STD-188-198**
  - **no tables in STD, promised**
  - **CR to remove tables**
  - **pre- & post-processing RFCs on hold**
  - **resubmit as new ISO format APP6 markers**
- **Recommended Tables**
  - **no more defaults**
  - **removes database version control issue**
  - **no backward compatibility problems**
  - **recommend tables via "Compression Guidelines"**
    - **» format?**
    - **» author?**
  - **always place tables in stream**

Other JPEG Algorithms

- **Lossless JPEG**
  - **Want ISO JPEG Profile**
  - **MIL-STD draft available**
  - **technically complete**
  - **ready for distribution**
  - **format will migrate from MIL-STD to ISO profile once defined**
- **Hierarchical JPEG**
  - **very preliminary draft**
  - **subset of the very extensive possibilities allowed in JPEG**
    - » **Extended sequential DCT only**
  - **need to discuss current user requirements at next BWCWG**
  - **Some technical issues as well for BWCWG**
    - » **Error confinement & restart markers**
    - » **Tables**

VQ

- **Decompression Only**
  - **MIL-STD-188-199**
  - **no technical issues ?**

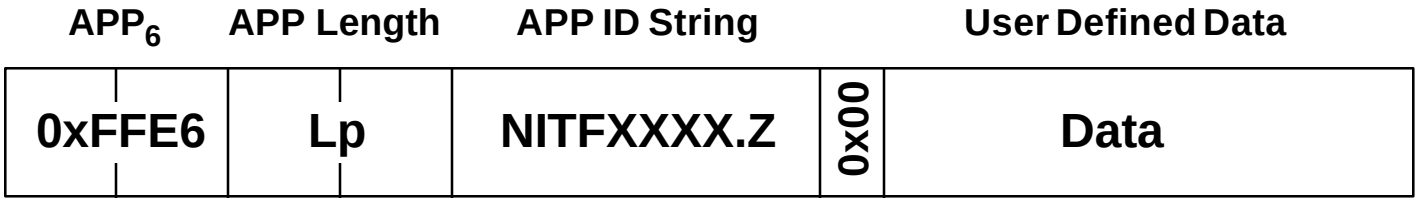
Software Status

- **2.4i**
  - **lossy JPEG**
    - **» certified at JITC**
  - **available at TASC for distribution**

- **3.0 β4**
  - **in process at JITC**
    - **» bugs found**
    - **» 3.0 β5 in preparation to fix bugs**
    - **» to be sent this week**
  - **lossy JPEG**
  - **lossless JPEG**
    - **» as per "profile"**
  - **VQ**
  - **hierarchical JPEG**
    - **» pending documentation**
    - **» to be addressed at next BWCWG**

New APPn Marker Format

- **Due to ISO issues regarding APPn marker registration, the following APPn marker format was created (at last NTB)**



where: XXXX is a unique 4 digit number indicating the function of the APP marker.

Z is a letter indicating version of the APP marker (first version = A)

Note old APP_6 will remain unchanged